## Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 1-8 are amended.

## Listing of Claims:

- 1. (Currently Amended) A device Device for the reception of a multicarrier signal, formed by a set of carrier frequencies, said device implementing at least two reception paths ( $10_1$  and  $10_2$ ) supplied with data flows, each conveying the a same source symbol ( $x_k(n)$ ), each of said reception paths comprising estimation means ( $105_1$ ,  $105_2$ ), associating, with each source symbol received, an estimated path value and a corresponding piece of path confidence information element, and
- a <u>said</u> source <u>symbols</u> being conveyed by a subset of said set of carrier frequencies, characterized in that it comprises <u>said device comprise</u> means for the combination (11) of said estimated path values delivering
  - an adapted estimated value, obtained from said estimated path values, in taking account
    of said path confidence information to weight said estimated path values; and
  - an adapted confidence information element, as a <u>sum function</u> of said path confidence information elements, <u>and</u>

weighted-input decoding means (12) supplied by said adapted estimated values value.

- 2. (Currently Amended) Reception device according to claim 1, characterized in that said estimation means (105<sub>1</sub>, 105<sub>2</sub>) comprise means for the estimation of the <u>a</u> transmission channel, delivering said path confidence information elements.
- 3. (Currently Amended) Reception device according to claim 1, characterized in that said adapted estimated value is computed as follows:

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$$\hat{x}_{Adap,n} = \left(\sum_{i=1}^{N} cnfd_{i,n} \times \hat{x}_{i,n}\right) / \left(\sum_{i=1}^{N} cnfd_{i,n}\right)$$

where:

 $\frac{\hat{x}_n}{\hat{x}_{l,n}}$  is the estimated value of the symbol received on the path i;  $cnfd_{l,n}$  is the corresponding path confidence information element; and N is the number of paths.

4. (Currently Amended) Reception device according to claim 1, characterized in that, said adaptive adapted confidence information element is computed as follows:

$$cnfd_{Adap,n} = \sum_{i=1}^{N} cnfd_{i,n}$$

where:

 $cnfd_{i,n}$  is the confidence information element associated with the path i; and N is the number of paths.

- 5. (Currently Amended) Reception device according to claim 1, characterized in that it the reception device implements at least two antennas (101<sub>1</sub>, 101<sub>2</sub>), supplying distinct reception paths.
- 6. (Currently Amended) Reception device according to claim 1, characterized in that each of said reception paths comprises a first module shaping and demodulating the received signal and a second module determining said estimated path values and said corresponding confidence information elements, said device furthermore comprising a single module supplied by said second modules module of each reception path, and providing especially for said means for the combination (11) delivering said adapted estimated values and a said weighted-input decoding means (12) supplied with by said adapted estimated values values.
- 7. (Currently Amended) A method Method for the reception of a multicarrier signal, formed by a set of carrier frequencies transmitted simultaneously, implementing at least two

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reception paths supplied with data flows, each conveying the same source symbols, each of said reception paths implementing a step of estimation of the transmission channel associating, with each source symbol received, an estimated path value and a corresponding path confidence information element,

a source symbol being conveyed by a subset of said set of carrier frequencies, characterized in that it comprises:

- a combination step delivering:
- an adapted estimated value, obtained from said estimated path values in taking account of said path confidence information to weight said estimated path values; and
- an adapted confidence information element with each of said adapted estimated values, as a sum function of said path confidence information elements,
- a step of weighted-input decoding, supplied by said adapted estimated values.
- 8. (Currently Amended) Use of a Reception device and/or of the method according to claim 1, whereas method provides and/or of the method for the reception of a multicarrier signal, formed by a set of carrier frequencies transmitted simultaneously, implementing at least two reception paths supplied with data flows, each convoying the same source symbols, each of said paths implementing a step of estimation of the transmission channel associating, with each source symbol received, an estimated path value and a corresponding path confidence information element;

a source symbol being conveyed by a subset of said-set of carrier frequencies; characterized in that it comprises:

- -a-combination-step delivering:
- an adapted estimated value, obtained from said estimated path values in taking account of said path confidence information to weight said-estimated path values; and
- an adapted confidence information element with each of said adapted estimated values, as a function of said path confidence information elements,
- a step of weighted-input decoding, supplied by said adapted estimated values, for the
  reception of data belonging to at least one of the following applications:
- the broadcasting of digital television signals;
- the broadcasting of audio-digital signals;

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- radio telephony;
- the transmission of data signals.